Ole Andre Ã˜iseth

List of Publications by Year
in descending order

63 papers	1,442 citations	279778 23 h-index	345203 36 g-index
70 all docs	70 docs citations	70 times ranked	510 citing authors

#	Article	IF	Citations
1	A hybrid structural health monitoring approach for damage detection in steel bridges under simulated environmental conditions using numerical and experimental data. Structural Health Monitoring, 2023, 22, 540-561.	7.5	13
2	A data-based structural health monitoring approach for damage detection in steel bridges using experimental data. Journal of Civil Structural Health Monitoring, 2022, 12, 101-115.	3.9	40
3	Systematic Metadata Analysis of Wind-Exposed Long-Span Bridges for Road Vehicle Safety Assessments. Journal of Bridge Engineering, 2022, 27, .	2.9	4
4	Convolution-based time-domain simulation for fluidelastic instability in tube arrays. Nonlinear Dynamics, 2021, 104, 4063-4081.	5.2	6
5	Dynamic Response of an End-Supported Pontoon Bridge due to Wave Excitation: Numerical Predictions versus Measurements. Shock and Vibration, 2021, 2021, 1-18.	0.6	0
6	Data Set from Long-Term Wind and Acceleration Monitoring of the Hardanger Bridge. Journal of Structural Engineering, 2021, 147, .	3.4	22
7	Long-term extreme buffeting response of cable-supported bridges with uncertain turbulence parameters. Engineering Structures, 2021, 236, 112126.	5.3	11
8	Numerical Simulation and Modelling Convention of Unsteady Fluidelastic Forces of Tube Arrays. Journal of Pressure Vessel Technology, Transactions of the ASME, 2021, , .	0.6	1
9	IABSE Task Group 3.1 Benchmark Results. Part 2: Numerical Analysis of a Three-Degree-of-Freedom Bridge Deck Section Based on Experimental Aerodynamics. Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE), 2020, 30, 411-420.	0.8	15
10	IABSE Task Group 3.1 Benchmark Results. Part 1: Numerical Analysis of a Two-Degree-of-Freedom Bridge Deck Section Based on Analytical Aerodynamics. Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE), 2020, 30, 401-410.	0.8	13
11	Model uncertainty assessment for wave- and current-induced global response of a curved floating pontoon bridge. Applied Ocean Research, 2020, 105, 102368.	4.1	21
12	Software-to-Software Comparison of End-Anchored Floating Bridge Global Analysis. Journal of Bridge Engineering, 2020, 25, .	2.9	16
13	Buffeting response of long-span bridges considering uncertain turbulence parameters using the environmental contour method. Engineering Structures, 2020, 213, 110575.	5.3	23
14	Computational and experimental investigation of free vibration and flutter of bridge decks. Computational Mechanics, 2019, 63, 121-136.	4.0	39
15	Experiences from the Five-Year Monitoring of a Long-Span Pontoon Bridge: What Went Right, What Went Wrong and Whatâ€™s Next?. Conference Proceedings of the Society for Experimental Mechanics, 2019, , 135-138.	0.5	1
16	ALE-VMS methods for wind-resistant design of long-span bridges. Journal of Wind Engineering and Industrial Aerodynamics, 2019, 191, 143-153.	3.9	24
17	Effects of wave directionality on extreme response for a long end-anchored floating bridge. Applied Ocean Research, 2019, 90, 101843.	4.1	28
18	Isogeometric Modeling and Experimental Investigation of Moving-Domain Bridge Aerodynamics. Journal of Engineering Mechanics - ASCE, 2019, 145, .	2.9	30

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19	Superposition principle in bridge aerodynamics: Modelling of self-excited forces for bridge decks in random vibrations. Engineering Structures, 2019, 179, 52-65.	5.3	3
20	The use of inverse methods for response estimation of long-span suspension bridges with uncertain wind loading conditions. Journal of Civil Structural Health Monitoring, 2019, 9, 21-36.	3.9	12
21	Using ALE-VMS to compute aerodynamic derivatives of bridge sections. Computers and Fluids, 2019, 179, 820-832.	2.5	35
22	Finite Element Model Updating of a Long Span Suspension Bridge. Geotechnical, Geological and Earthquake Engineering, 2019, , 335-344.	0.2	5
23	Characterization of the Wave Field Around an Existing End-Supported Pontoon Bridge from Simulated Data. Geotechnical, Geological and Earthquake Engineering, 2019, , 345-359.	0.2	4
24	Long-Term Extreme Response Analysis of Marine Structures Using Inverse SORM. Journal of Offshore Mechanics and Arctic Engineering, 2018, 140, .	1.2	9
25	Time domain simulations of wind- and wave-induced load effects on a three-span suspension bridge with two floating pylons. Marine Structures, 2018, 58, 434-452.	3.8	33
26	Flutter derivatives from free decay tests of a rectangular B/Dâ€‰=â€‰10 section estimated by optimized system identification methods. Engineering Structures, 2018, 156, 284-293.	5.3	11
27	Long-term extreme response analysis of a long-span pontoon bridge. Marine Structures, 2018, 58, 154-171.	3.8	24
28	An enhanced identification procedure to determine the rational functions and aerodynamic derivatives of bridge decks. Journal of Wind Engineering and Industrial Aerodynamics, 2018, 176, 131-142.	3.9	10
29	Strong wind characteristics and dynamic response of a long-span suspension bridge during a storm. Journal of Wind Engineering and Industrial Aerodynamics, 2018, 172, 116-138.	3.9	62
30	Indirect monitoring of vortex-induced vibration of suspension bridge hangers. Structural Health Monitoring, 2018, 17, 837-849.	7.5	17
31	Site-specific data-driven probabilistic wind field modeling for the wind-induced response prediction of cable-supported bridges. Journal of Wind Engineering and Industrial Aerodynamics, 2018, 181, 161-179.	3.9	32
32	Evaluation of mast measurements and wind tunnel terrain models to describe spatially variable wind field characteristics for long-span bridge design. Journal of Wind Engineering and Industrial Aerodynamics, 2018, 179, 558-573.	3.9	51
33	Prediction of long-term extreme load effects due to wave and wind actions for cable-supported bridges with floating pylons. Engineering Structures, 2018, 172, 321-333.	5.3	42
34	Time-Frequency Analysis of Suspension Bridge Response for Identification of Vortex Induced Vibrations. Lecture Notes in Civil Engineering, 2018, , 667-675.	0.4	1
35	Simulation and Monitoring of Floating Bridge Behaviour. Geotechnical, Geological and Earthquake Engineering, 2018, , 277-296.	0.2	1
36	Efficient computation of cross-spectral densities in the stochastic modelling of waves and wave loads. Applied Ocean Research, 2017, 62, 70-88.	4.1	9

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37	Structural monitoring of an end-supported pontoon bridge. Marine Structures, 2017, 52, 188-207.	3.8	20
38	Influence line extraction by deconvolution in the frequency domain. Computers and Structures, 2017, 189, 21-30.	4.4	38
39	Long-term monitoring of wind field characteristics and dynamic response of a long-span suspension bridge in complex terrain. Engineering Structures, 2017, 147, 269-284.	5.3	97
40	An enhanced forced vibration rig for wind tunnel testing of bridge deck section models in arbitrary motion. Journal of Wind Engineering and Industrial Aerodynamics, 2017, 164, 152-163.	3.9	51
41	Long-term stochastic extreme response analysis of floating bridges. Procedia Engineering, 2017, 199, 1175-1180.	1.2	3
42	Measured Buffeting Response of a Long-Span Suspension Bridge Compared with Numerical Predictions Based on Design Wind Spectra. Journal of Structural Engineering, 2017, 143, .	3.4	41
43	Estimation of the dynamic response of a slender suspension bridge using measured acceleration data. Procedia Engineering, 2017, 199, 3047-3052.	1.2	8
44	On the importance of cross-sectional details in the wind tunnel testing of bridge deck section models. Procedia Engineering, 2017, 199, 3145-3151.	1.2	4
45	The Hardanger Bridge monitoring project: Long-term monitoring results and implications on bridge design. Procedia Engineering, 2017, 199, 3115-3120.	1.2	8
46	Full long-term extreme response analysis of marine structures using inverse FORM. Probabilistic Engineering Mechanics, 2017, 50, 1-8.	2.7	26
47	Operational modal analysis of an end-supported pontoon bridge. Engineering Structures, 2017, 148, 410-423.	5.3	49
48	Prediction of long-term extreme load effects due to wind for cable-supported bridges using time-domain simulations. Engineering Structures, 2017, 148, 239-253.	5.3	20
49	Time Domain Modelling of Frequency Dependent Wind and Wave Forces on a Three-Span Suspension Bridge With Two Floating Pylons Using State Space Models. , 2017, , .		3
50	Covariance-Driven Stochastic Subspace Identification of an End-Supported Pontoon Bridge Under Varying Environmental Conditions. Conference Proceedings of the Society for Experimental Mechanics, 2017, , 107-115.	0.5	5
51	Model-Based Estimation of Hydrodynamic Forces on the Bergsoysund Bridge. Conference Proceedings of the Society for Experimental Mechanics, 2016, , 217-228.	0.5	2
52	Ice force identification on the NorstrÃ¶msgrund lighthouse. Computers and Structures, 2016, 169, 24-39.	4.4	26
53	Modelling the stochastic dynamic behaviour of a pontoon bridge: A case study. Computers and Structures, 2016, 165, 123-135.	4.4	45
54	Full-Scale Measurements on the Hardanger Bridge During Strong Winds. Conference Proceedings of the Society for Experimental Mechanics, 2016, , 237-245.	0.5	2

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55	Model-based force and state estimation in experimental ice-induced vibrations by means of Kalman filtering. Cold Regions Science and Technology, 2015, 111, 13-26.	3.5	26
56	Laboratory experiments to study ice-induced vibrations of scaled model structures during their interaction with level ice at different ice velocities. Cold Regions Science and Technology, 2015, 119, 1-15.	3.5	15
57	Engineering Analysis and Design with ALE-VMS and Spaceâ€"Time Methods. Archives of Computational Methods in Engineering, 2014, 21, 481-508.	10.2	105
58	Computational Engineering Analysis and Design with ALE-VMS and ST Methods. Computational Methods in Applied Sciences (Springer), 2014, , 321-353.	0.3	3
59	Effects of co-spectral densities of atmospheric turbulence on the dynamic response of cable-supported bridges: A case study. Journal of Wind Engineering and Industrial Aerodynamics, 2013, 116, 83-93.	3.9	19
60	Finite element formulation of the self-excited forces for time-domain assessment of wind-induced dynamic response and flutter stability limit of cable-supported bridges. Finite Elements in Analysis and Design, 2012, 50, 173-183.	3.2	29
61	Time domain modeling of self-excited aerodynamic forces for cable-supported bridges: A comparative study. Computers and Structures, 2011, 89, 1306-1322.	4.4	45
62	An alternative analytical approach to prediction of flutter stability limits of cable supported bridges. Journal of Sound and Vibration, 2011, 330, 2784-2800.	3.9	17
63	Simplified prediction of wind-induced response and stability limit of slender long-span suspension bridges, based on modified quasi-steady theory: A case study. Journal of Wind Engineering and Industrial Aerodynamics, 2010, 98, 730-741.	3.9	58